



SEQUENCE LISTING

<110> NEC CORPORATION
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NAKAZATO, Takeru
ASOGAWA, Minoru

<120> Sequence Display Method and Homogeny Search Method

<130> Q78853

<140> JP 2002-358407

<141> 2002-12-10

<150> US 10/728,979

<151> 2003-12-08

<160> 93

<170> PatentIn version 3.1

<210> 1

<211> 1560

<212> DNA

<213> Artificial Sequence

<220>

<223> QUERY Polynucleotide

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<221> CDS

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ggc ccg ccc tcc ccc gag gtc gga tcc cca ctg ctg tgt cgc cca gcc	96
Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala	
20 25 30	

gca ggt ccg ttc ccg ggg agc cag acc tcg gac acc ttg cct gaa gtt	144
Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val	
35 40 45	

tcg gcc ata cct atc tcc ctg gac ggg cta ctc ttc cct cgg ccc tgc	192
Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe Pro Arg Pro Cys	
50 55 60	
cag gga cag gac ccc tcc gac gaa aag acg cag gac cag cag tcg ctg	240
Gln Gly Gln Asp Pro Ser Asp Glu Lys Thr Gln Asp Gln Gln Ser Leu	
65 70 75 80	
tcg gac gtg gag ggc gca tat tcc aga gct gaa gct aca agg ggt gct	288
Ser Asp Val Glu Gly Ala Tyr Ser Arg Ala Glu Ala Thr Arg Gly Ala	
85 90 95	
gga ggc agc agt tct agt ccc cca gaa aag gac agc gga ctg ctg gac	336
Gly Gly Ser Ser Ser Ser Pro Pro Glu Lys Asp Ser Gly Leu Leu Asp	
100 105 110	
agt gtc ttg gac act ctg ttg gcg ccc tca ggt ccc ggg cag agc caa	384
Ser Val Leu Asp Thr Leu Leu Ala Pro Ser Gly Pro Gly Gln Ser Gln	
115 120 125	
ccc agc cct ccc gcc tgc gag gtc acc agc tct tgg tgc ctg ttt ggc	432
Pro Ser Pro Pro Ala Cys Glu Val Thr Ser Ser Trp Cys Leu Phe Gly	
130 135 140	
ccc gaa ctt ccc gaa gat cca ccg gct gcc ccc gcc acc cag cgg gtg	480
Pro Glu Leu Pro Glu Asp Pro Pro Ala Ala Pro Ala Thr Gln Arg Val	
145 150 155 160	
ttg tcc ccg ctc atg agc cgg tcc ggg tgc aag gtt gga gac agc tcc	528
Leu Ser Pro Leu Met Ser Arg Ser Gly Cys Lys Val Gly Asp Ser Ser	
165 170 175	
ggg acg gca gct gcc cat aaa gtg ctg ccc cgg ggc ctg tca cca gcc	576
Gly Thr Ala Ala Ala His Lys Val Leu Pro Arg Gly Leu Ser Pro Ala	
180 185 190	
cgg cag ctg ctg ctc ccg gcc tct gag agc cct cac tgg tcc ggg gcc	624
Arg Gln Leu Leu Leu Pro Ala Ser Glu Ser Pro His Trp Ser Gly Ala	
195 200 205	
cca gtg aag ccg tct ccg cag gcc gct gcg gtg gag gtt gag gag gag	672
Pro Val Lys Pro Ser Pro Gln Ala Ala Val Glu Val Glu Glu Glu	
210 215 220	

gat	agc	tct	gag	tcc	gag	gag	tct	gcg	ggt	ccg	ctt	ctg	aag	ggc	aaa	720
Asp	Ser	Ser	Glu	Ser	Glu	Glu	Ser	Ala	Gly	Pro	Leu	Leu	Lys	Gly	Lys	
225					230					235					240	
cct	cgg	gct	ctg	ggt	ggc	gcg	gcg	gct	gga	gga	gga	gcc	gcg	gct	tgt	768
Pro	Arg	Ala	Leu	Gly	Gly	Ala	Ala	Ala	Gly	Gly	Gly	Ala	Ala	Ala	Cys	
				245					250					255		
ccg	ccg	ggg	gcg	gca	gca	gga	ggc	gtc	gcc	ctg	gtc	ccc	aag	gaa	gat	816
Pro	Pro	Gly	Ala	Ala	Ala	Gly	Gly	Val	Ala	Leu	Val	Pro	Lys	Glu	Asp	
			260					265					270			
tcc	cgc	ttc	tca	gcg	ccc	agg	gtc	gcc	ctg	gtg	gag	cag	gac	gcg	ccg	864
Ser	Arg	Phe	Ser	Ala	Pro	Arg	Val	Ala	Leu	Val	Glu	Gln	Asp	Ala	Pro	
		275					280					285				
atg	gcg	ccc	ggg	cgc	tcc	ccg	ctg	gcc	acc	acg	gtg	atg	gat	ttc	atc	912
Met	Ala	Pro	Gly	Arg	Ser	Pro	Leu	Ala	Thr	Thr	Val	Met	Asp	Phe	Ile	
	290					295					300					
cac	gtg	cct	atc	ctg	cct	ctc	aat	cac	gcc	tta	ttg	gca	gcc	cgc	act	960
His	Val	Pro	Ile	Leu	Pro	Leu	Asn	His	Ala	Leu	Leu	Ala	Ala	Arg	Thr	
305					310					315					320	
cgg	cag	ctg	ctg	gaa	gac	gaa	agt	tac	gac	ggc	ggg	gcc	ggg	gct	gcc	1008
Arg	Gln	Leu	Leu	Glu	Asp	Glu	Ser	Tyr	Asp	Gly	Gly	Ala	Gly	Ala	Ala	
				325					330					335		
agc	gcc	ttt	gcc	ccg	ccg	cgg	act	tca	ccc	tgt	gcc	tcg	tcc	acc	ccg	1056
Ser	Ala	Phe	Ala	Pro	Pro	Arg	Thr	Ser	Pro	Cys	Ala	Ser	Ser	Thr	Pro	
			340					345					350			
gtc	gct	gta	ggc	gac	ttc	ccc	gac	tgc	gcg	tac	ccg	ccc	gac	gcc	gag	1104
Val	Ala	Val	Gly	Asp	Phe	Pro	Asp	Cys	Ala	Tyr	Pro	Pro	Asp	Ala	Glu	
		355					360					365				
ccc	aag	gac	gac	gcg	tac	cct	ctc	tat	agc	gac	ttc	cag	ccg	ccc	gct	1152
Pro	Lys	Asp	Asp	Ala	Tyr	Pro	Leu	Tyr	Ser	Asp	Phe	Gln	Pro	Pro	Ala	
	370					375					380					
cta	aag	ata	aag	gag	gag	gag	gaa	ggc	gcg	gag	gcc	tcc	gcg	cgc	tcc	1200
Leu	Lys	Ile	Lys	Glu	Glu	Glu	Glu	Gly	Ala	Glu	Ala	Ser	Ala	Arg	Ser	
385					390				395						400	
ccg	cgt	tcc	tac	ctt	gtg	gcc	ggt	gcc	aac	ccc	gca	gcc	ttc	ccg	gat	1248

Pro	Arg	Ser	Tyr	Leu	Val	Ala	Gly	Ala	Asn	Pro	Ala	Ala	Phe	Pro	Asp	
				405					410					415		
ttc	ccg	ttg	ggg	cca	ccg	ccc	ccg	ctg	ccg	ccg	cga	gcg	acc	cca	tcc	1296
Phe	Pro	Leu	Gly	Pro	Pro	Pro	Pro	Leu	Pro	Pro	Arg	Ala	Thr	Pro	Ser	
			420					425					430			
aga	ccc	ggg	gaa	gcg	gcg	gtg	acg	gcc	gca	ccc	gcc	agt	gcc	tca	gtc	1344
Arg	Pro	Gly	Glu	Ala	Ala	Val	Thr	Ala	Ala	Pro	Ala	Ser	Ala	Ser	Val	
			435				440					445				
tcg	tct	gcg	tcc	tcc	tcg	ggg	tcg	acc	ctg	gag	tgc	atc	ctg	tac	aaa	1392
Ser	Ser	Ala	Ser	Ser	Ser	Gly	Ser	Thr	Leu	Glu	Cys	Ile	Leu	Tyr	Lys	
	450					455					460					
gcg	gag	ggc	gcg	ccg	ccc	cag	cag	ggc	ccg	ttc	gcg	ccg	ccg	ccc	tgc	1440
Ala	Glu	Gly	Ala	Pro	Pro	Gln	Gln	Gly	Pro	Phe	Ala	Pro	Pro	Pro	Cys	
465					470					475					480	
aag	gcg	ccg	ggc	gcg	agc	ggc	tgc	ctg	ctc	ccg	cgg	gac	ggc	ctg	ccc	1488
Lys	Ala	Pro	Gly	Ala	Ser	Gly	Cys	Leu	Leu	Pro	Arg	Asp	Gly	Leu	Pro	
				485				490						495		
tcc	acc	tcc	gcc	tct	gcc	gcc	gcc	gcc	ggg	gcg	gcc	ccc	gcg	ctc	tac	1536
Ser	Thr	Ser	Ala	Ser	Ala	Ala	Ala	Ala	Gly	Ala	Ala	Pro	Ala	Leu	Tyr	
			500					505					510			
cct	gca	ctc	ggc	ctc	aac	ggg	ctc									1560
Pro	Ala	Leu	Gly	Leu	Asn	Gly	Leu									
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20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe Pro Arg Pro Cys
50 55 60

Gln Gly Gln Asp Pro Ser Asp Glu Lys Thr Gln Asp Gln Gln Ser Leu
65 70 75 80

Ser Asp Val Glu Gly Ala Tyr Ser Arg Ala Glu Ala Thr Arg Gly Ala
85 90 95

Gly Gly Ser Ser Ser Ser Pro Pro Glu Lys Asp Ser Gly Leu Leu Asp
100 105 110

Ser Val Leu Asp Thr Leu Leu Ala Pro Ser Gly Pro Gly Gln Ser Gln
115 120 125

Pro Ser Pro Pro Ala Cys Glu Val Thr Ser Ser Trp Cys Leu Phe Gly
130 135 140

Pro Glu Leu Pro Glu Asp Pro Pro Ala Ala Pro Ala Thr Gln Arg Val
145 150 155 160

Leu Ser Pro Leu Met Ser Arg Ser Gly Cys Lys Val Gly Asp Ser Ser
165 170 175

Gly Thr Ala Ala Ala His Lys Val Leu Pro Arg Gly Leu Ser Pro Ala
180 185 190

Arg Gln Leu Leu Leu Pro Ala Ser Glu Ser Pro His Trp Ser Gly Ala
195 200 205

Pro Val Lys Pro Ser Pro Gln Ala Ala Ala Val Glu Val Glu Glu Glu
210 215 220

Asp Ser Ser Glu Ser Glu Glu Ser Ala Gly Pro Leu Leu Lys Gly Lys
225 230 235 240

Pro Arg Ala Leu Gly Gly Ala Ala Ala Gly Gly Gly Ala Ala Ala Cys
245 250 255

Pro Pro Gly Ala Ala Ala Gly Gly Val Ala Leu Val Pro Lys Glu Asp
260 265 270

Ser Arg Phe Ser Ala Pro Arg Val Ala Leu Val Glu Gln Asp Ala Pro
275 280 285

Met Ala Pro Gly Arg Ser Pro Leu Ala Thr Thr Val Met Asp Phe Ile
290 295 300

His Val Pro Ile Leu Pro Leu Asn His Ala Leu Leu Ala Ala Arg Thr
305 310 315 320

Arg Gln Leu Leu Glu Asp Glu Ser Tyr Asp Gly Gly Ala Gly Ala Ala
325 330 335

Ser Ala Phe Ala Pro Pro Arg Thr Ser Pro Cys Ala Ser Ser Thr Pro
340 345 350

Val Ala Val Gly Asp Phe Pro Asp Cys Ala Tyr Pro Pro Asp Ala Glu
355 360 365

Pro Lys Asp Asp Ala Tyr Pro Leu Tyr Ser Asp Phe Gln Pro Pro Ala

370

375

380

Leu Lys Ile Lys Glu Glu Glu Gly Ala Glu Ala Ser Ala Arg Ser
 385 390 395 400

Pro Arg Ser Tyr Leu Val Ala Gly Ala Asn Pro Ala Ala Phe Pro Asp
 405 410 415

Phe Pro Leu Gly Pro Pro Pro Pro Leu Pro Pro Arg Ala Thr Pro Ser
 420 425 430

Arg Pro Gly Glu Ala Ala Val Thr Ala Ala Pro Ala Ser Ala Ser Val
 435 440 445

Ser Ser Ala Ser Ser Ser Gly Ser Thr Leu Glu Cys Ile Leu Tyr Lys
 450 455 460

Ala Glu Gly Ala Pro Pro Gln Gln Gly Pro Phe Ala Pro Pro Pro Cys
 465 470 475 480

Lys Ala Pro Gly Ala Ser Gly Cys Leu Leu Pro Arg Asp Gly Leu Pro
 485 490 495

Ser Thr Ser Ala Ser Ala Ala Ala Ala Gly Ala Ala Pro Ala Leu Tyr
 500 505 510

Pro Ala Leu Gly Leu Asn Gly Leu
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<213> Artificial Sequence

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<223> gi|9868497|dbj|AV647483.1|AV647483 Polynucleotide

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Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe Pro Arg Pro Cys
50 55 60

Gln Gly Gln Asp Pro Ser Asp Glu Lys Thr Gln Asp Gln Gln Ser Leu
65 70 75 80

Ser Asp Val Glu Gly Ala Tyr Ser Arg Ala Glu Ala Thr Arg Gly Ala
85 90 95

Gly Gly Ser Ser Ser Ser Pro Pro Glu Lys Asp Ser Gly Leu Leu Asp
100 105 110

Ser Val Leu Asp Thr Leu Leu Ala Pro Ser Gly Pro Gly Gln Ser Gln
115 120 125

Pro Ser Pro Pro Ala Cys Glu Val Thr Ser Ser Trp Cys Leu Phe Gly
130 135 140

Pro Glu Leu Pro Glu Asp Pro Pro Ala Ala Pro Ala Thr Gln Arg Val
145 150 155 160

Leu Ser Pro Leu Met Ser Arg Ser Gly Cys Lys Val Gly Asp Ser Ser
165 170 175

Gly Thr Ala Ala Ala His Lys Val Leu Pro Arg Gly Leu Ser Pro Ala
180 185 190

Arg Gln Leu Leu Leu Pro Ala Ser Glu Ser Pro His Trp Ser Gly Ala
195 200 205

Pro Val Lys Pro Ser Pro Gln Ala Ala Ala Val Glu Val Glu Glu Glu
210 215 220

Asp Ser Ser Glu Ser Glu Glu Ser Ala Gly Pro Leu Leu Lys Gly Lys
225 230 235 240

Pro Arg Ala Leu Gly Gly Ala Ala Ala Gly Gly Gly Ala Ala Ala Cys
245 250 255

Pro Pro Gly Ala Ala Ala Gly Gly Val Ala Leu Val Pro Lys Glu Asp
260 265 270

Ser Arg Phe Ser Ala Pro Arg Val Ala Leu Val Glu Gln Asp Ala Pro
275 280 285

Met Ala Pro Gly Arg Ser Pro Leu Ala Thr Thr Val Met Asp Phe Ile
290 295 300

His Val Pro Ile Leu Pro Leu Asn His Ala Leu Leu Ala Ala Arg Thr
305 310 315 320

Arg Gln Leu Leu Glu Asp Glu Ser Tyr Asp Gly Gly Ala Gly Ala Ala
325 330 335

Ser Ala Phe Ala Pro Pro Arg Thr Ser Pro Cys Ala Ser Ser Thr Pro
340 345 350

Val Ala Val Gly Asp Phe Pro Asp Cys Ala Tyr Pro Pro Asp Ala Glu
355 360 365

Pro Lys Asp Asp Ala Tyr Pro Leu Tyr Ser Asp Phe Gln Pro Pro Ala
370 375 380

Leu Lys Ile Lys Glu Glu Glu Glu Gly Ala Glu Ala Ser Ala Arg Ser
385 390 395 400

Pro Arg Ser Tyr Leu Val Ala Gly Ala Asn Pro Ala Ala Phe Pro Asp
405 410 415

Phe Pro Leu Gly Pro Pro Pro Pro Leu Pro Pro Arg Ala Thr Pro Ser
420 425 430

Arg Pro Gly Glu Ala Ala Val Thr Ala Ala Pro Ala Ser Ala Ser Val
435 440 445

Ser Ser Ala Ser Ser Ser Gly Ser Thr Leu Glu Cys Ile Leu Tyr Lys
450 455 460

Ala Glu Gly Ala Pro Pro Gln Gln Gly Pro Phe Ala Pro Pro Pro Cys
465 470 475 480

Lys Ala Pro Gly Ala Ser Gly Cys Leu Leu Pro Arg Asp Gly Leu Pro
485 490 495

Ser Thr Ser Ala Ser Ala Ala Ala Ala Gly Ala Ala Pro Ala Leu Tyr
500 505 510

Pro Ala Leu Gly Leu Asn Gly Leu Pro Gln Leu Gly Tyr Gln Ala Ala
515 520 525

Val Leu Lys Glu Gly Leu Pro Gln Val Tyr Pro Pro Tyr Leu Asn Tyr
530 535 540

Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln Tyr Ser Phe Glu
545 550 555 560

Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp Glu Ala Ser Gly

565

570

575

Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys
 580 585 590

Arg Ala Met Glu Gly Gln His Asn Tyr Leu Cys Ala Gly Arg Asn Asp
 595 600 605

Cys Ile Val Asp Lys Ile Arg Arg Lys Asn Cys Pro Ala Cys Arg Leu
 610 615 620

Arg Lys Cys Cys Gln Ala Gly Met Val Leu Gly Gly Arg Lys Phe Lys
 625 630 635 640

Lys Phe Asn Lys Val Arg Val Val Arg Ala Leu Asp Ala Val Ala Leu
 645 650 655

Pro Gln Pro Leu Gly Val Pro Asn Glu Ser Gln Ala Leu Ser Gln Arg
 660 665 670

Phe Thr Phe Ser Pro Gly Gln Asp Ile Gln Leu Ile Pro Pro Leu Ile
 675 680 685

Asn Leu Leu Met Ser Ile Glu Pro Asp Val Ile Tyr Ala Gly His Asp
 690 695 700

Asn Thr Lys Pro Asp Thr Ser Ser Ser Leu Leu Thr Ser Leu Asn Gln
 705 710 715 720

Leu Gly Glu Arg Gln Leu Leu Ser Val Val Lys Trp Ser Lys Ser Leu
 725 730 735

Pro Gly Phe Arg Asn Leu His Ile Asp Asp Gln Ile Thr Leu Ile Gln
 740 745 750

Tyr Ser Trp Met Ser Leu Met Val Phe Gly Leu Gly Trp Arg Ser Tyr
755 760 765

Lys His Val Ser Gly Gln Met Leu Tyr Phe Ala Pro Asp Leu Ile Leu
770 775 780

Asn Glu Gln Arg Met Lys Glu Ser Ser Phe Tyr Ser Leu Cys Leu Thr
785 790 795 800

Met Trp Gln Ile Pro Gln Glu Phe Val Lys Leu Gln Val Ser Gln Glu
805 810 815

Glu Phe Leu Cys Met Lys Val Leu Leu Leu Leu Asn Thr Ile Pro Leu
820 825 830

Glu Gly Leu Arg Ser Gln Thr Gln Phe Glu Glu Met Arg Ser Ser Tyr
835 840 845

Ile Arg Glu Leu Ile Lys Ala Ile Gly Leu Arg Gln Lys Gly Val Val
850 855 860

Ser Ser Ser Gln Arg Phe Tyr Gln Leu Thr Lys Leu Leu Asp Asn Leu
865 870 875 880

His Asp Leu Val Lys Gln Leu His Leu Tyr Cys Leu Asn Thr Phe Ile
885 890 895

Gln Ser Arg Ala Leu Ser Val Glu Phe Pro Glu Met Met Ser Glu Val
900 905 910

Ile Ala Ala Gln Leu Pro Lys Ile Leu Ala Gly Met Val Lys Pro Leu
915 920 925

Leu Phe His Lys Lys
930

<210> 44
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Query 1-60 Polypeptide

<400> 44

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 45
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|35652|emb|CAA36018.1| Polypeptide

<400> 45

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 46
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|625331|pir||QRHUP Polypeptide

<400> 46

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 47
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|12644100|sp|P06401|PRGR Polypeptide

<400> 47

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 48
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|4505767|ref|NP Polypeptide

<400> 48

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 49
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|22759952|dbj|BAC11013.1| Polypeptide

<400> 49

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 50
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|22759948|dbj|BAC11011.1| Polypeptide

<400> 50

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val

35

40

45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
 50 55 60

<210> 51

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|20278871|dbj|BAB91074.1| Polypeptide

<400> 51

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
 1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
 20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
 35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
 50 55 60

<210> 52

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|22036117|dbj|BAC06585.1| Polypeptide

<400> 52

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
 1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 53

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|22759950|dbj|BAC11012.1| Polypeptide

<400> 53

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 54

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Query 541- 600 Polypeptide

<400> 54

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 55

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|35652|emb|CAA36018.1| Polypeptide

<400> 55

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 56
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|625331|pir||QRHUP Polypeptide

<400> 56

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 57
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|12644100|sp|P06401|PRGR Polypeptide

<400> 57

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
 35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
 50 55 60

<210> 58
 <211> 60
 <212> PRT
 <213> Unknown Sequence

<220>
 <223> gi|4505767|ref|NP Polypeptide

<400> 58

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
 1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
 20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
 35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
 50 55 60

<210> 59
 <211> 60
 <212> PRT
 <213> Unknown Sequence

<220>
 <223> gi|22759952|dbj|BAC11013.1| Polypeptide

<400> 59

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 60

<211> 56

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|22759948|dbj|BAC11011.1| Polypeptide

<400> 60

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu
50 55

<210> 61

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|20278871|dbj|BAB91074.1| Polypeptide

<400> 61

Tyr	Leu	Asn	Tyr	Leu	Arg	Pro	Asp	Ser	Glu	Ala	Ser	Gln	Ser	Pro	Gln
1				5					10					15	

Tyr	Ser	Phe	Glu	Ser	Leu	Pro	Gln	Lys	Ile	Cys	Leu	Ile	Cys	Gly	Asp
			20					25					30		

Glu	Ala	Ser	Gly	Cys	His	Tyr	Gly	Val	Leu	Thr	Cys	Gly	Ser	Cys	Lys
		35					40					45			

Val	Phe	Phe	Lys	Arg	Ala	Met	Glu	Gly	Gln	His	Asn
50						55					60

<210> 62

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|22036117|dbj|BAC06585.1| Polypeptide

<400> 62

Tyr	Leu	Asn	Tyr	Leu	Arg	Pro	Asp	Ser	Glu	Ala	Ser	Gln	Ser	Pro	Gln
1				5					10					15	

Tyr	Ser	Phe	Glu	Ser	Leu	Pro	Gln	Lys	Ile	Cys	Leu	Ile	Cys	Gly	Asp
			20					25					30		

Glu	Ala	Ser	Gly	Cys	His	Tyr	Gly	Val	Leu	Thr	Cys	Gly	Ser	Cys	Lys
		35					40					45			

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 63
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|22759950|dbj|BAC11012.1| Polypeptide

<400> 63

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 64
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|3342402|gb|AAC63513.1| Polypeptide

<400> 64

Val Leu Glu Tyr Ile Pro Glu Asn Val Ser Ser Ser Thr Leu Arg Ser
1 5 10 15

Val Ser Thr Ser Ser Arg Pro Ser Lys Ile Cys Leu Val Cys Gly Asp

20

25

30

Glu Ala Ser Gly Cys His Tyr Gly Val Val Thr Cys Gly Ser Cys Lys
 35 40 45

Val Phe Phe Lys Arg Ala Val Glu Gly Gln His Asn
 50 55 60

<210> 65

<211> 38

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|178892|gb|AAA51774.1| Polypeptide

<400> 65

Pro Gln Lys Thr Cys Leu Ile Cys Gly Asp Lys Ala Ser Gly Cys His
 1 5 10 15

Tyr Gly Ala Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys Arg Ala
 20 25 30

Ala Glu Gly Lys Gln Lys
 35

<210> 66

<211> 56

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|4504133|ref|NP Polypeptide

<400> 66

Met Arg Pro Asp Val Ser Ser Pro Pro Ser Ser Ser Ser Thr Ala Thr
 1 5 10 15

Thr Pro Pro Pro Lys Leu Cys Leu Val Cys Ser Asp Glu Ala Ser Gly
20 25 30

Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys
35 40 45

Arg Ala Val Glu Gly Gln His Asn
50 55

<210> 67

<211> 56

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|458657|gb|AAA16603.1| Polypeptide

<400> 67

Met Arg Pro Asp Val Ser Ser Pro Pro Ser Ser Ser Ser Thr Ala Thr
1 5 10 15

Thr Pro Pro Pro Lys Leu Cys Leu Val Cys Ser Asp Glu Ala Ser Gly
20 25 30

Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys
35 40 45

Arg Ala Val Glu Gly Gln His Asn
50 55

<210> 68

<211> 38

<212> PRT

<213> Unknown Sequence

<220>
<223> gi|460281|gb|AAA51770.1| Polypeptide

<400> 68

Pro Gln Lys Thr Cys Leu Ile Cys Gly Asp Glu Ala Ser Gly Cys His
1 5 10 15

Tyr Gly Ala Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys Arg Ala
20 25 30

Ala Glu Gly Lys Gln Lys
35

<210> 69
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|4505199|ref|NP Polypeptide

<400> 69

Val Leu Glu Tyr Ile Pro Glu Asn Val Ser Ser Ser Thr Leu Arg Ser
1 5 10 15

Val Ser Thr Ser Ser Arg Pro Ser Lys Ile Cys Leu Val Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Val Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Val Glu Gly Gln His Asn
50 55 60

<210> 70
<211> 56

<212> PRT
<213> Unknown Sequence

<220>
<223> gi|72117|pir||QRHUGB Polypeptide

<400> 70

Met Arg Pro Asp Val Ser Ser Pro Pro Ser Ser Ser Ser Thr Ala Thr
1 5 10 15

Thr Pro Pro Pro Lys Leu Cys Leu Val Cys Ser Asp Glu Ala Ser Gly
20 25 30

Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys
35 40 45

Arg Ala Val Glu Gly Gln His Asn
50 55

<210> 71
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Query 601-660 Polypeptide

<400> 71

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val
35 40 45

Arg Ala Leu Asp Ala Val Ala Leu Pro Gln Pro Leu
50 55 60

<210> 72
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|35652|emb|CAA36018.1| Polypeptide

<400> 72

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val
35 40 45

Arg Ala Leu Asp Ala Val Ala Leu Pro Gln Pro Leu
50 55 60

<210> 73
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|625331|pir||QRHUP Polypeptide

<400> 73

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val
35 40 45

Arg Ala Leu Asp Ala Val Ala Leu Pro Gln Pro Leu
50 55 60

<210> 74
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|12644100|sp|P06401|PRGR Polypeptide

<400> 74

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val
35 40 45

Arg Ala Leu Asp Ala Val Ala Leu Pro Gln Pro Leu
50 55 60

<210> 75
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|4505767|ref|NP Polypeptide

<400> 75

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val
35 40 45

Arg Ala Leu Asp Ala Val Ala Leu Pro Gln Pro Val
50 55 60

<210> 76

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|22759952|dbj|BAC11013.1| Polypeptide

<400> 76

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val
35 40 45

Arg Ala Leu Asp Ala Val Ala Leu Pro Gln Pro Val
50 55 60

<210> 77
<211> 25
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|22759948|dbj|BAC11011.1| Polypeptide

<400> 77

Gly	Arg	Lys	Phe	Lys	Lys	Phe	Asn	Lys	Val	Arg	Val	Val	Arg	Ala	Leu
1				5					10					15	

Asp	Ala	Val	Ala	Leu	Pro	Gln	Pro	Val
			20				25	

<210> 78
<211> 36
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|20278871|dbj|BAB91074.1| Polypeptide

<400> 78

Tyr	Leu	Cys	Ala	Gly	Arg	Asn	Asp	Cys	Ile	Val	Asp	Lys	Ile	Arg	Arg
1				5					10					15	

Lys	Asn	Cys	Pro	Ala	Cys	Arg	Leu	Arg	Lys	Cys	Cys	Gln	Ala	Gly	Met
			20					25					30		

Val	Leu	Gly	Gly
			35

<210> 79
<211> 36
<212> PRT
<213> Unknown Sequence

<220>

<223> gi|22036117|dbj|BAC06585.1| Polypeptide

<400> 79

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly
35

<210> 80

<211> 36

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|22759950|dbj|BAC11012.1| Polypeptide

<400> 80

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly
35

<210> 81

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|3342402|gb|AAC63513.1| Polypeptide

<400> 81

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Ile Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Gln Lys Cys Leu Gln Ala Gly Met
20 25 30

Asn Leu Gly Ala Arg Lys Ser Lys Lys Leu Gly Lys Leu Lys Gly Ile
35 40 45

His Pro Glu Glu Gly Thr Thr Tyr Ile Ala Pro Ala
50 55 60

<210> 82

<211> 54

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|178892|gb|AAA51774.1| Polypeptide

<400> 82

Tyr Leu Cys Ala Ser Arg Asn Asp Cys Thr Ile Asp Lys Phe Arg Arg
1 5 10 15

Lys Asn Cys Pro Ser Cys Arg Leu Arg Lys Cys Tyr Glu Ala Gly Met
20 25 30

Thr Leu Gly Ala Arg Lys Leu Lys Lys Leu Gly Asn Leu Lys Leu Gln
35 40 45

Glu Glu Gly Glu Ala Ser
50

<210> 83
<211> 51
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|4504133|ref|NP Polypeptide

<400> 83

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Ile Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Tyr Arg Lys Cys Leu Gln Ala Gly Met
20 25 30

Asn Leu Glu Ala Arg Lys Thr Lys Lys Lys Ile Lys Gly Ile Gln Gln
35 40 45

Ala Thr Thr
50

<210> 84
<211> 51
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|458657|gb|AAA16603.1| Polypeptide

<400> 84

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Ile Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Tyr Arg Lys Cys Leu Gln Ala Gly Met
20 25 30

Asn Leu Glu Ala Arg Lys Thr Lys Lys Lys Ile Lys Gly Ile Gln Gln
35 40 45

Ala Thr Thr
50

<210> 85
<211> 54
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|460281|gb|AAA51770.1| Polypeptide

<400> 85

Tyr Leu Cys Ala Ser Arg Asn Asp Cys Thr Ile Asp Lys Phe Arg Arg
1 5 10 15

Lys Asn Cys Pro Ser Cys Arg Leu Arg Lys Cys Tyr Glu Ala Gly Met
20 25 30

Thr Leu Gly Ala Arg Lys Leu Lys Lys Leu Gly Asn Leu Lys Leu Gln
35 40 45

Glu Glu Gly Glu Ala Ser
50

<210> 86
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|4505199|ref|NP Polypeptide

<400> 86

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Ile Asp Lys Ile Arg Arg

1	5	10	15												
Lys	Asn	Cys	Pro	Ala	Cys	Arg	Leu	Gln	Lys	Cys	Leu	Gln	Ala	Gly	Met
		20					25					30			
Asn	Leu	Gly	Ala	Arg	Lys	Ser	Lys	Lys	Leu	Gly	Lys	Leu	Lys	Gly	Ile
		35					40					45			
His	Pro	Glu	Glu	Gly	Thr	Thr	Tyr	Ile	Ala	Pro	Ala				
	50					55					60				

<210> 87
 <211> 51
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			20					25					30		
Asn	Leu	Glu	Ala	Arg	Lys	Thr	Lys	Lys	Lys	Ile	Lys	Gly	Ile	Gln	Gln
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	50														

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